

I, Therese Zemel, certify under penalty of perjury under the laws of the State of Washington, that on the below date, true and correct copies of this document were sent via U.S. mail to all parties of record as specified by the Council's Service List dated 9/20/01 at the addresses provided therein. Dated this _____ day of September, 2001, at Bellingham, Washington.

In the Matter of)	
Application No. 99-1)	
)	EXHIBIT _____ (JQK-T)
SUMAS ENERGY 2, INC.)	
)	
SUMAS ENERGY 2 GENERATION)	
FACILITY)	
)	

Q: Please re-introduce yourself to the Council.

Ans: My name is Jane Q. Koenig. I am a professor in the School of Public Health and Community Medicine, Department of Environmental Health, at the University of Washington, Seattle, Washington. I have been employed by the University in the Department of Environmental Health since 1975. I hold a Ph.D. in Physiological Psychology from the University of Washington. My interests in both research and teaching have focused on the health effects of air pollution. In addition to my teaching duties, I am presently a consultant to the EPA's Clean Air Science Advisory Committee, and I was recently named the director of an EPA funded Particulate Matter(PM) Health Effects Center sited at UW. As previously mentioned, I was involved as the director of a study in Spokane investigating the health effects of particulate matter and a collaborator on two studies of the effects of environmental interventions on asthma in young children. A copy of my Curriculum Vitae and Bibliography are already exhibits in this matter (see, Exhibits JQK-1 and JQK-2).

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2 Q: What is the subject of your testimony?
3

4 Ans: I wish to express my continuing concerns about the project's potential public
5 health impacts in light of the project revisions proposed.
6

7 Q: What materials have you reviewed in preparation of your testimony?
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9 Ans: I have reviewed those portions of the revised application pertaining to air quality
10 impacts, with a focus on that information addressing particulate matter. I have
11 also reviewed the prefilled testimony of Sanya Petrovic.
12

13 Q: Have the revisions to the project eliminated your previously stated concerns?
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15 Ans: While the PM 2.5 emissions are lower, my previously expressed concerns remain.
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17 Q: Do you agree with Ms. Petrovic's conclusion that as modified the SE2 generation
18 plant will have no adverse public health impacts?
19

20 Ans: No.
21

22 Q: Why?
23

24 Ans: In reading her testimony she indicates that an increase of 3.7 ug/m3 in PM2.5
25 would not have an adverse health effect. Certainly 3.7 ug/m3 of PM2.5 is low in
26 itself. However, given the revised application materials, it appears to me that the
27 PM2.5 levels in the vicinity of the plant, those cited for "Abbotsford" for
28 example, are reaching between 24 and 32 ug/m3 (depending on the year). If we
29 use the 25 ug/m3 guideline selected by the PSCAA ad hoc committee (as
30 discussed in my prior testimony before the Council) those levels of PM2.5 would
31 rise to around 27.7 to 35.7 ug/m3 with the addition of the plant. The 35.7 level
32 would also exceed the 30 ug/m3 24h. Canada air quality standard. Moreover, as
33 increased exposures to PM2.5 have been shown to carry adverse health impacts, it
34 is illogical to be dismissive of the potential threat. It is similarly illogical to be
35 dismissive of potential adverse health impacts in light of the growing recognition
36 that global warming will result in increases in both ozone and PM air pollution.
37
38

39 END OF TESTIMONY
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